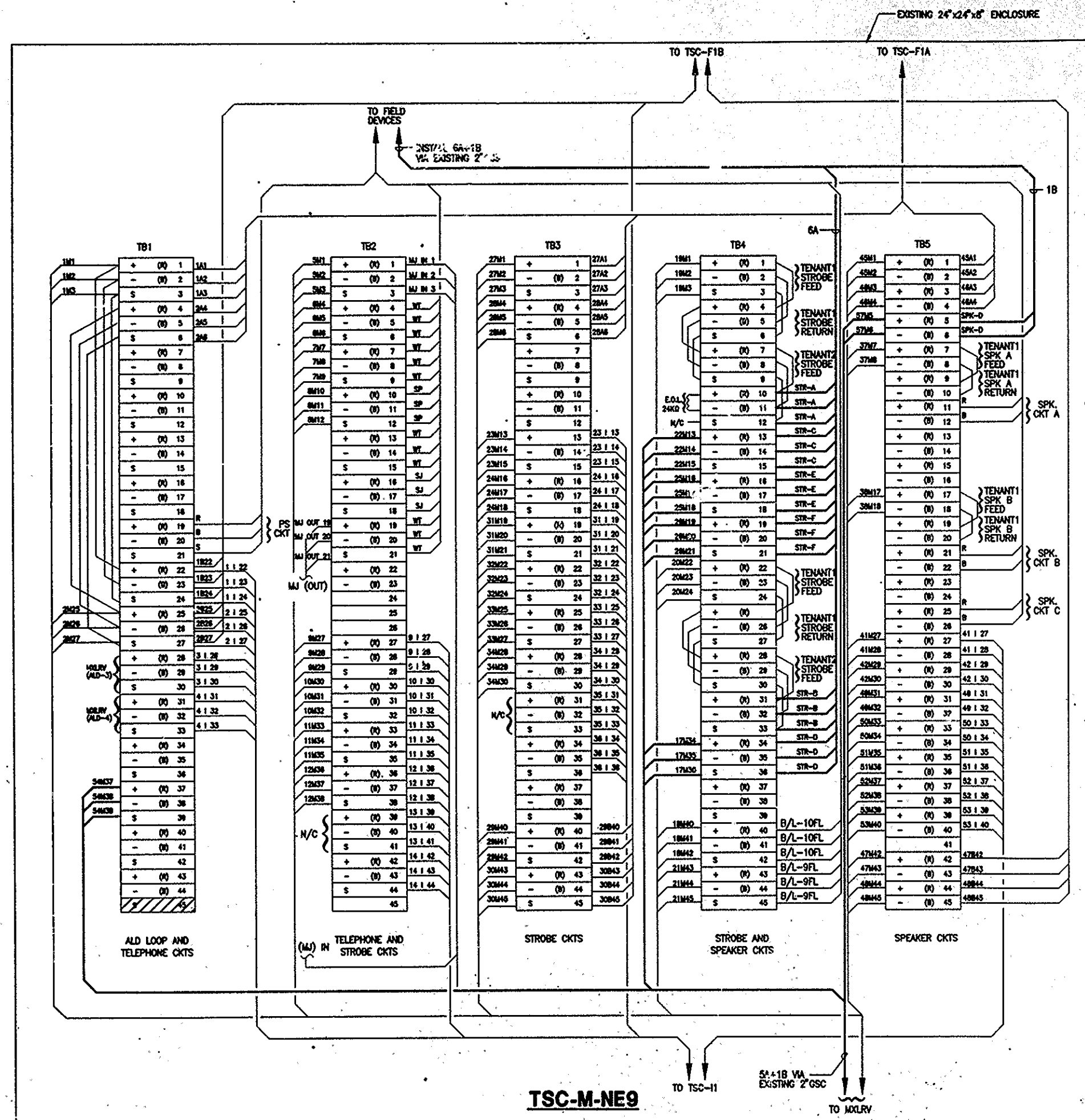


THE PORT AUTHORITY
OF NY & NJ

ENGINEERING PROGRAM MANAGER
WORLD TRADE
CENTER
CHIEF ELECTRICAL ENGINEER

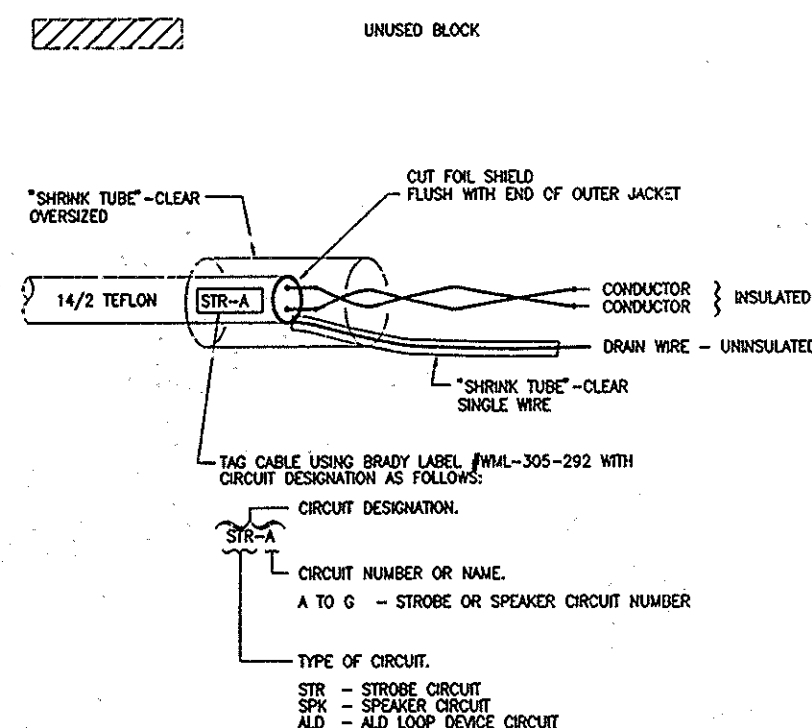


NOTES:

- FOR LEGEND, ABBREVIATIONS & GENERAL NOTES, SEE DWG E-1.
- ALL SHIELDS MUST BE ISOLATED FROM GROUND. APPROVED "SHRINK" TUBING SHALL BE USED ON ALL DRAIN CONDUCTORS. SEE DETAIL "A" (ON THIS DWG).
- ALL WIRING SHALL BE FREE OF GROUND FAULTS, OPENS, SHORTS & STRAY VOLTAGES.
- CONTRACTOR SHALL SHAPE, TEST AND LABEL ALL CABLES. FINAL CONNECTION SHALL BE MADE BY CONTRACTOR IN THE PRESENCE AND UNDER THE DIRECT SUPERVISION OF THE ENGINEER.
- FOR TSC-M-NE9 ENCLOSURE LOCATION, SEE DWG E-28, 9th FLOOR MER PLAN.

LEGEND:

- 23W13
- #14 AWG CONDUCTORS AND DRAINS
23 - INDICATES PAIR NUMBER
M - INDICATES WIRE RUN TO AXLRY
13 - INDICATES TERMINAL BLOCK NUMBER
1 - INDICATES WIRE RUN TO TSC-11
A - INDICATES WIRE RUN TO TSC-F1A
B - INDICATES WIRE RUN TO TSC-F18
- TB2 - TERMINAL BLOCK #2
(+) INDICATES POSITIVE POLARITY
(-) INDICATES NEGATIVE POLARITY
(R) INDICATES RED WIRE
(B) INDICATES BLACK WIRE
(S) INDICATES SHIELD/DRAIN WIRE
2 INDICATES TERMINAL BLOCK POINT NUMBER



DETAIL "A" - TYPICAL SHIELD/DRAIN INSULATING METHOD

I HEREBY CERTIFY THAT THIS IS A TRUE AND CORRECT COPY OF ONE OF THE CONTRACT DRAWINGS CONSTITUTING A PART OF CONTRACT NO. WTC-861.571 IN THE FORM IN WHICH SAID DRAWINGS EXISTED AT THE TIME THE SAID CONTRACT WAS EXECUTED BY THE PARTIES.
DATE 12/17/99 [Signature]
DATE 12/29/99 [Signature]
CONTRACT ENGINEER/ARCH.
ENGINEERING PROGRAM MGR.

No. Date Revision Approved

ENGINEERING DEPARTMENT

WORLD
TRADE
CENTER

ELECTRICAL

Title
FIRE ALARM SYSTEM
PHASE III
5 WTC MER'S, EWR'S
AND SUBSTATIONS

9th FLOOR
TSC-M-NE9
BLOCK WIRING
DIAGRAM

This drawing subject to conditions in Contract. Inventions, ideas, designs and methods herein are reserved to Port Authority and may not be used without its written consent.

FELDMAN ROYMAN
Designed by Drawn by Checked by

5-17-99
Date

WTC-861.571
Contract Number

E-31
Drawing